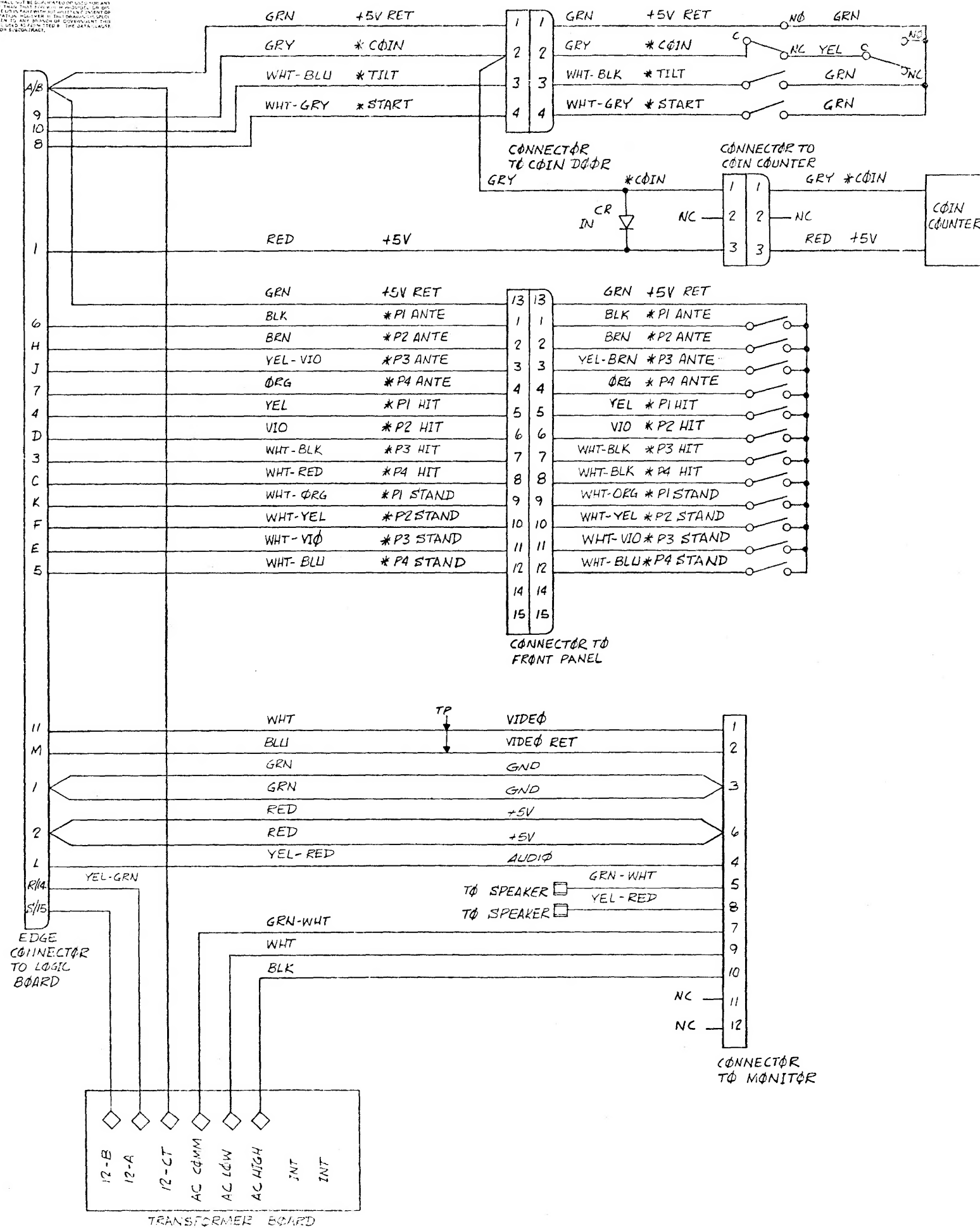


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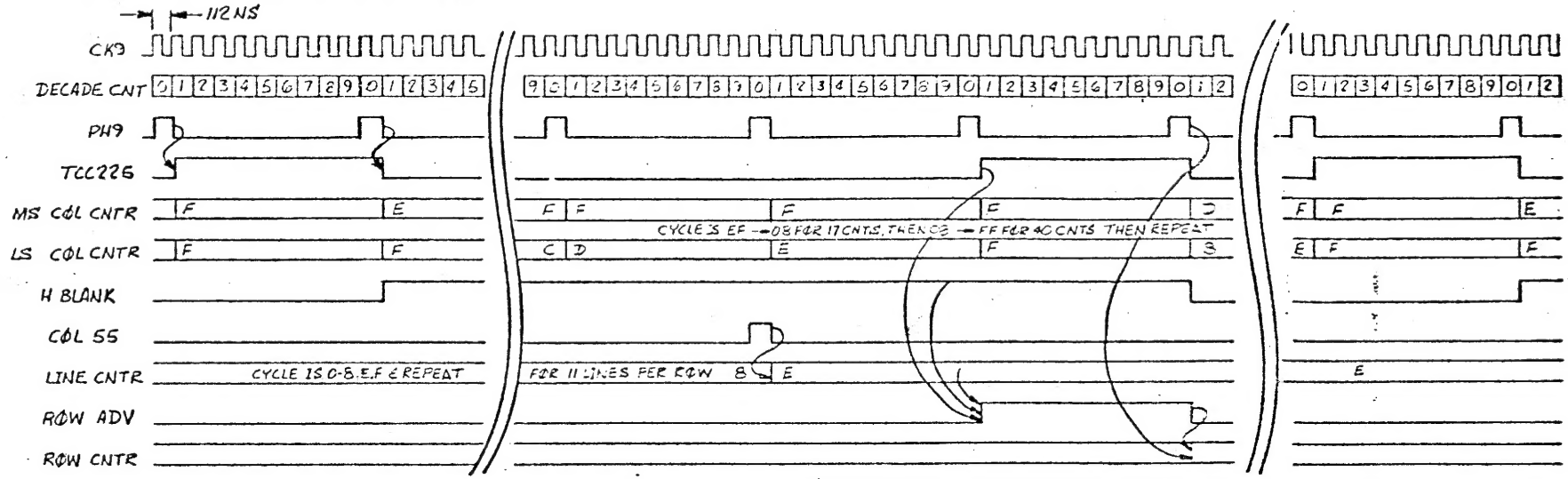
REVISIONS			
LTR	DESCRIPTION	APVD	DATE



QTY REQD	PART NO.	ITEM DESCRIPTION		ITEM NO.
LIST OF MATERIALS				
TOLERANCES UNLESS OTHERWISE SPECIFIED REMOVE ALL SHARP & BREAK ALL SHARP EDGES.		DO NOT SCALE DRAWING		
MATERIAL		SIGNATURES	DATE	RAMTEK
FINISH	CHK	OWN	HYLSTED	WIRING DIAGRAM, HIT ME
NEXT ASSY	ENG	APVD	DATE	DWG NO. 350750

REVISIONS			
LTG	DESCRIPTION	APPRO	DATE
B	RELEASE FOR PRD.		
C	RELEASE FOR PRD		

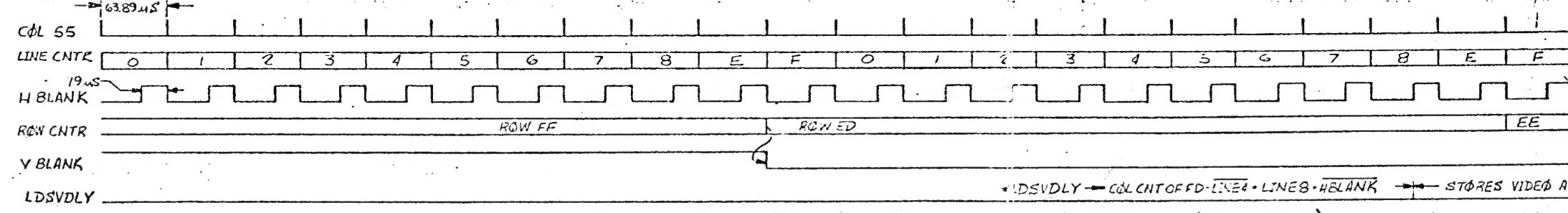
COLUMN, LINE, ROW COUNTERS



COLUMN COUNTER EF - (17 CNTS) - 08 - (40 CNTS) - EF
LINE COUNTER 0-8, E, F (11 LINES/ROW)
ROW COUNTER FB - (5 CNTS) - ED - (19 CNTS) - FB
V BLANKING VISIBLE ROWS

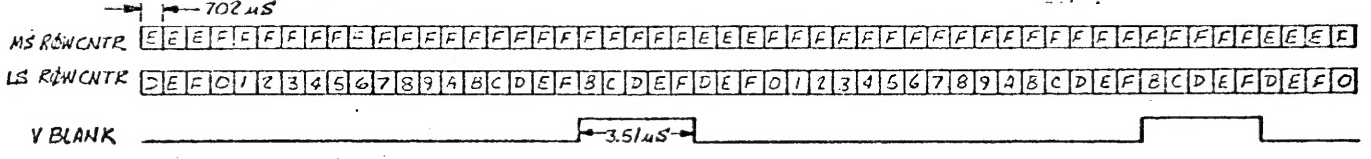
CK9 TIME IS 112NS
PH9 TO PH9 IS 10X112NS = 1.12μS
H BLANK TIME IS 1.12X17 = 19.04μS
VISIBLE COL TIME IS 1.12X40 = 44.80μS
H BLANK TO H BLANK = 63.94μS
VERTICAL BLANK TIME IS 5X11X63.84 = 3.51μS
VERTICAL BLANK TO VERTICAL BLANK IS 24X11X63.84 = 16.87μS

HORIZONTAL BLANKING

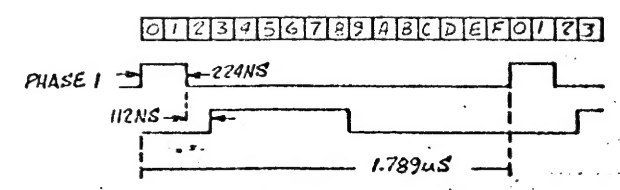


VAC CNTR CNTS EVERY PH9 BUT IS LOADED EVERY COLSS WITH CONTENTS OF VIDEO ADDRESS MEM (DEVICES EX, SJ)

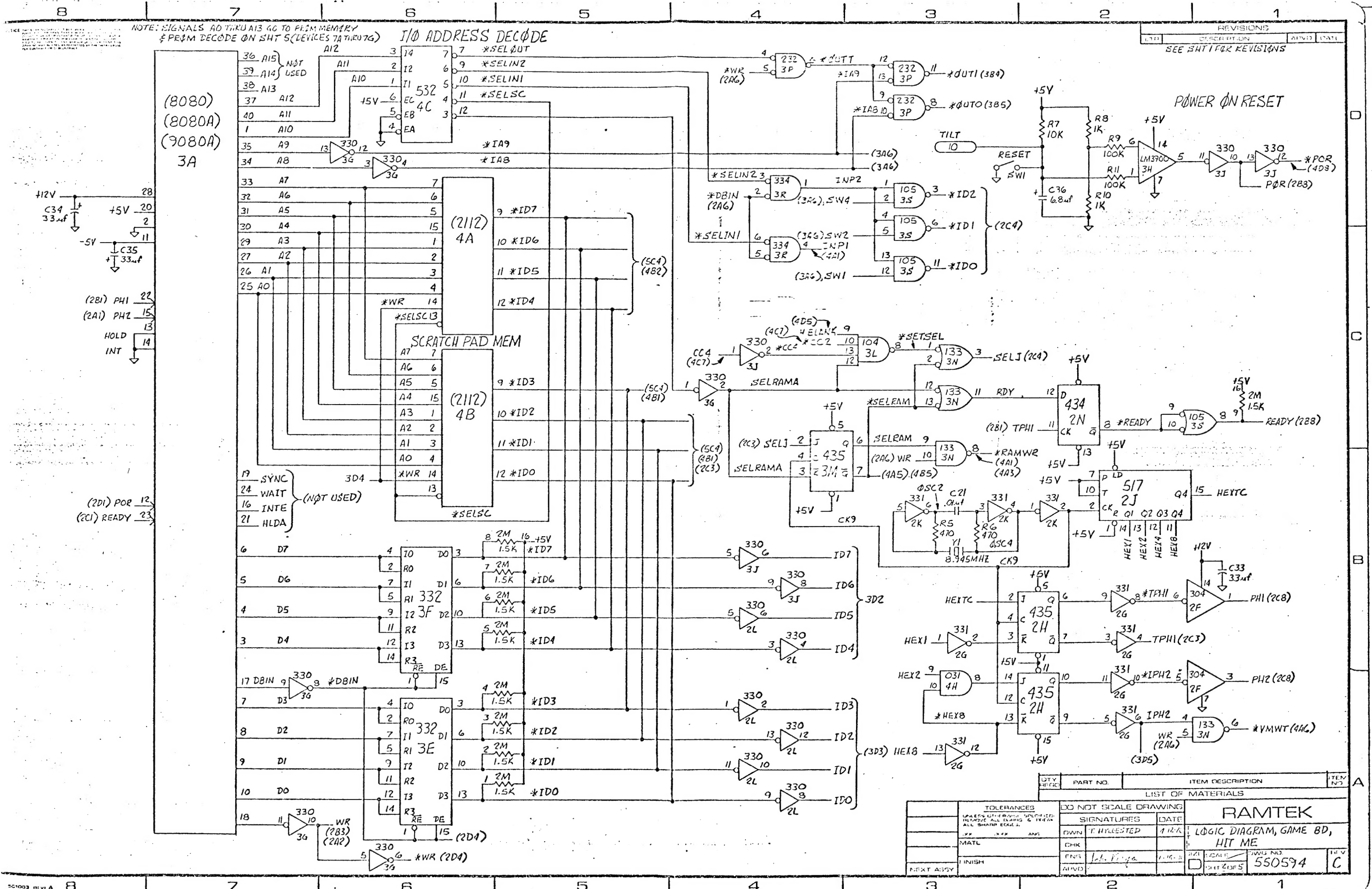
VERTICAL BLANKING

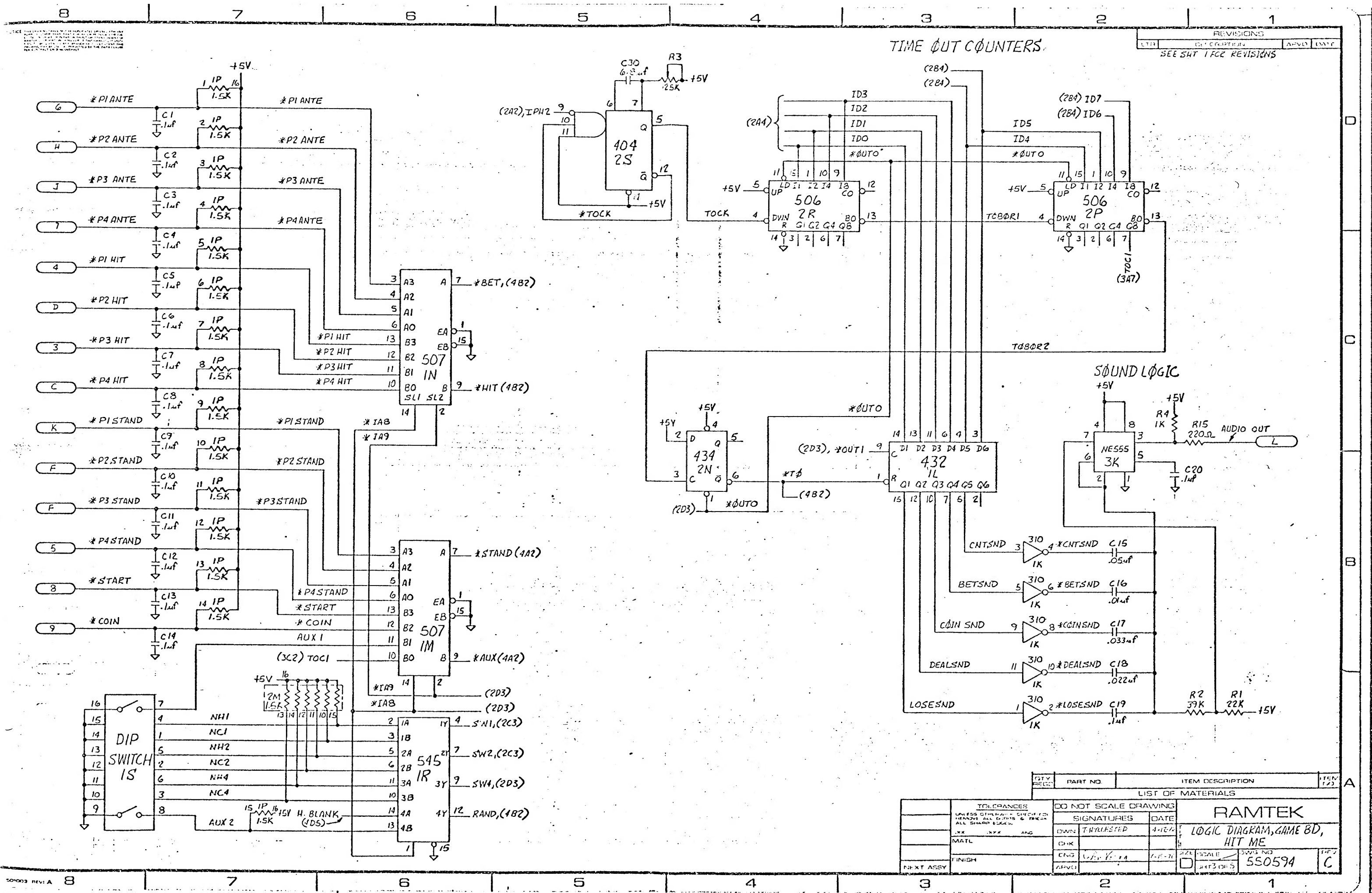


PHASE 1, PHASE 2 TIMING



QTY	PART NO.	ITEM DESCRIPTION	ITEM NO.
LIST OF MATERIALS			
TOLERANCES		DO NOT SCALE DRAWING	RAMTEK
UNLESS OTHERWISE SPECIFIED REMOVE ALL DIMS & UNLESS ALL SHARP CORNERS		SIGNATURES	
OWN	CHK	DATE	TIMING DIAGRAM, HIT ME
ENG	APPD	DATE	
SCALE	SCALE	SCALE	550594
SCALE	SCALE	SCALE	
SCALE	SCALE	SCALE	C
SCALE	SCALE	SCALE	



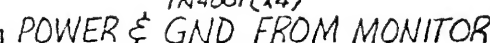


REVISIONS			
LTB	DESCRIPTION	APPROV	DATE
SEE SH1 FOR REVISIONS			

TIME OUT COUNTERS

SOUND LOGIC

QTY REQD		PART NO	ITEM DESCRIPTION		ITEM 123
LIST OF MATERIALS					
TOLERANCES		DO NOT SCALE DRAWING		RAMTEK	
UNLESS OTHERWISE SPECIFIED REMOVE ALL DIMS & DIMS ALL SHARP EDGES		SIGNATURES		DATE	
.XX .XX .ANG		OWN THY/EST/EP		4-18-74	
MATERIAL		CHK		LOGIC DIAGRAM, GAME BD, HIT ME	
FINISH		ENG 1/15/74		1-15-74	
NEXT ASSY		APPROV		SIZE SCALE 1/15/74 DATE 550594	
				REV C	



NOTE:
ALL REMS HAVE
THE SAME TERM
NAME EXCEPT PIN70.
ALL PINS CONNECTED
AS SHOWN ON
PRGM (76)

QTY REQD	PART NO.	ITEM DESCRIPTION	ITEM NO.
LIST OF MATERIALS			

TOLERANCES UNLESS OTHERWISE SPECIFIED FINISH ALL SURFES & PREPARE ALL SHARP EDGES.		DO NOT SCALE DRAWING		RAMTEK	
		SIGNATURES		DATE	
.XX .XXX ANG		DWN	T HILLESIED	1-10-72	
MATL		CHK			
		ENG	1-10-72		
FINISH		APPD			
NEXT ASSY		SIZE <input type="checkbox"/> SCALE <input checked="" type="checkbox"/>		DWG NO.	THE
		1/8" = 1"		550594	C